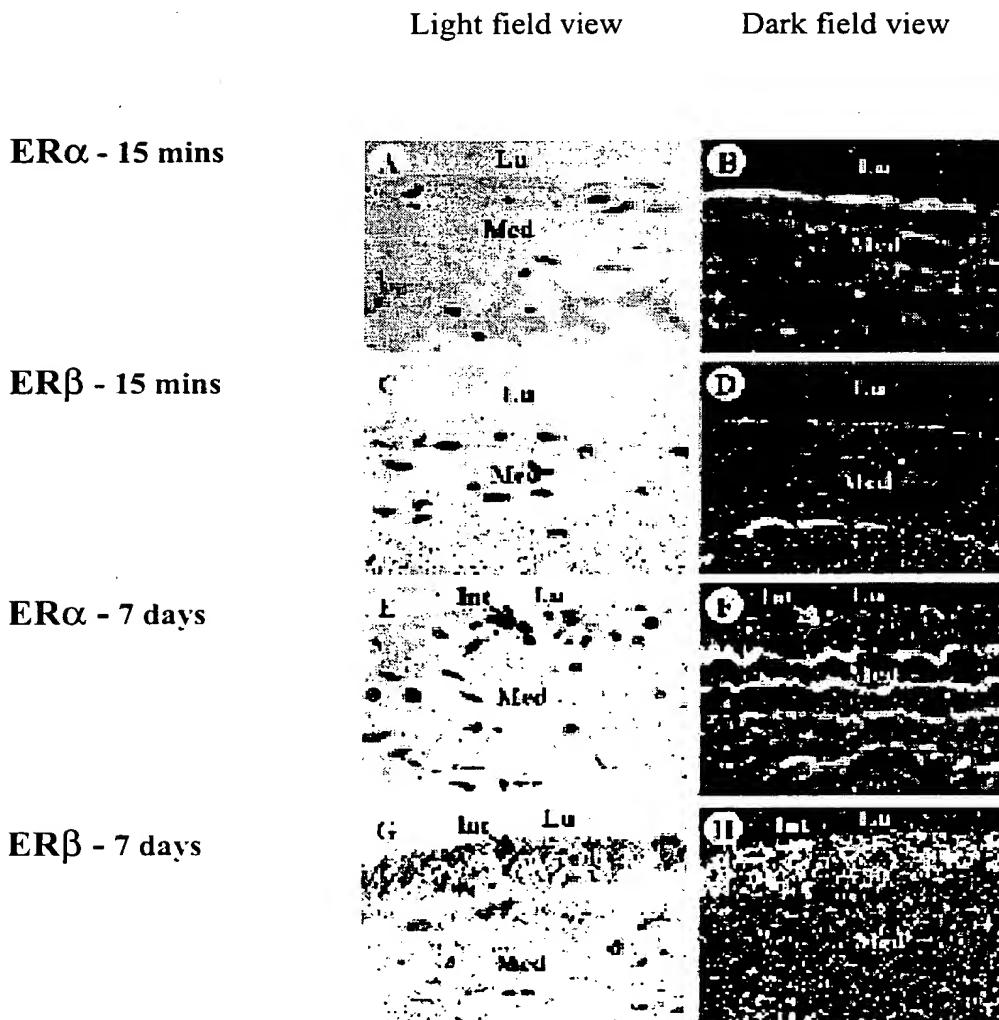


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**FIG.1**

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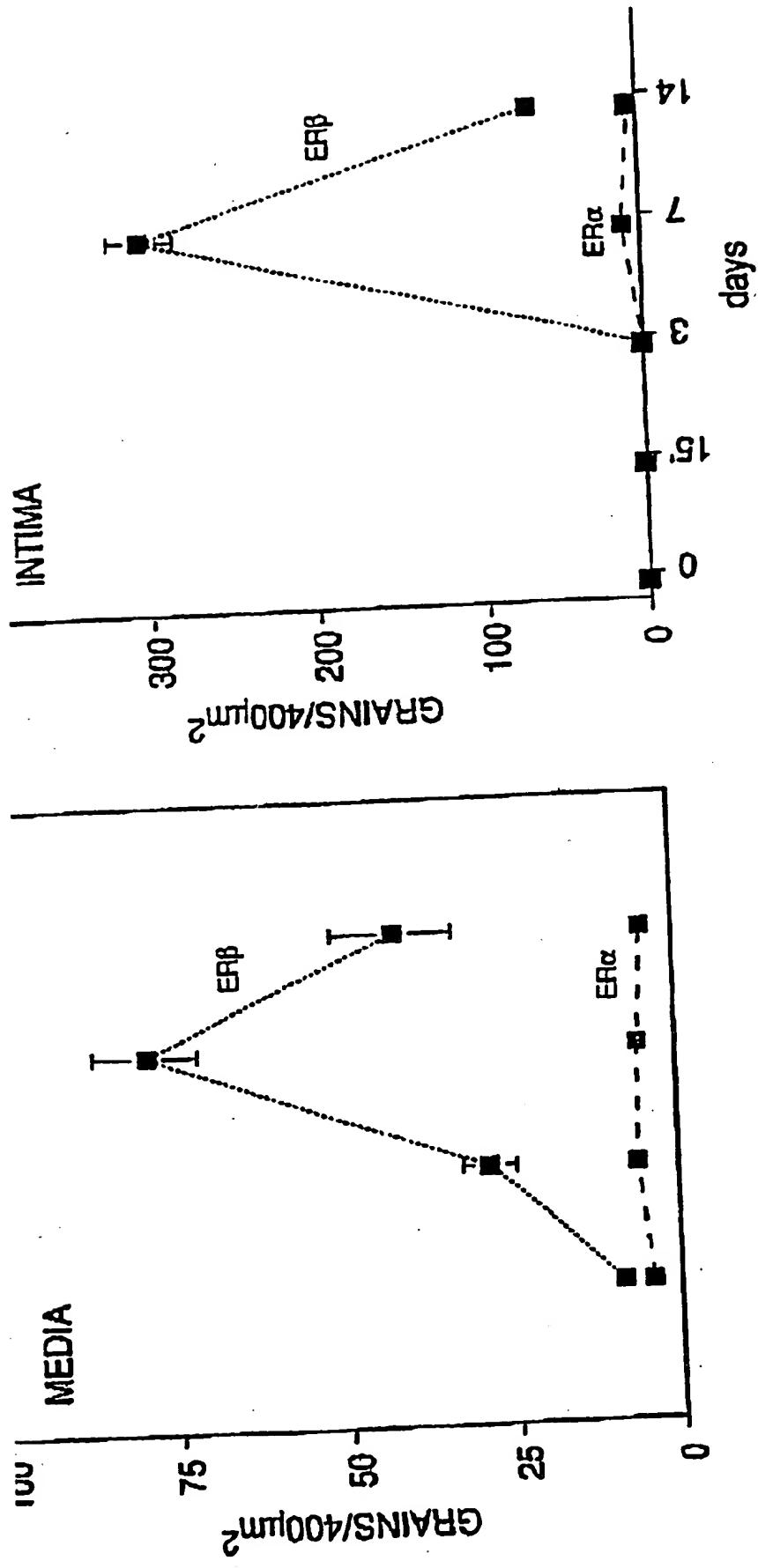
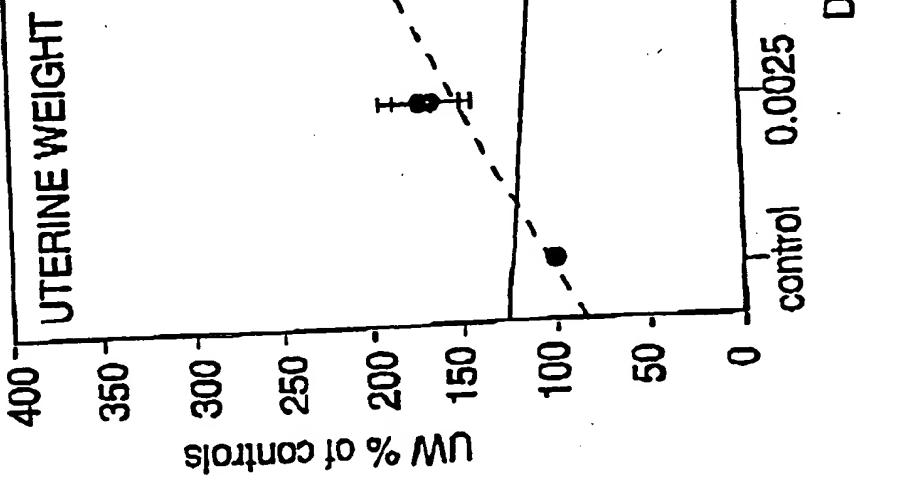
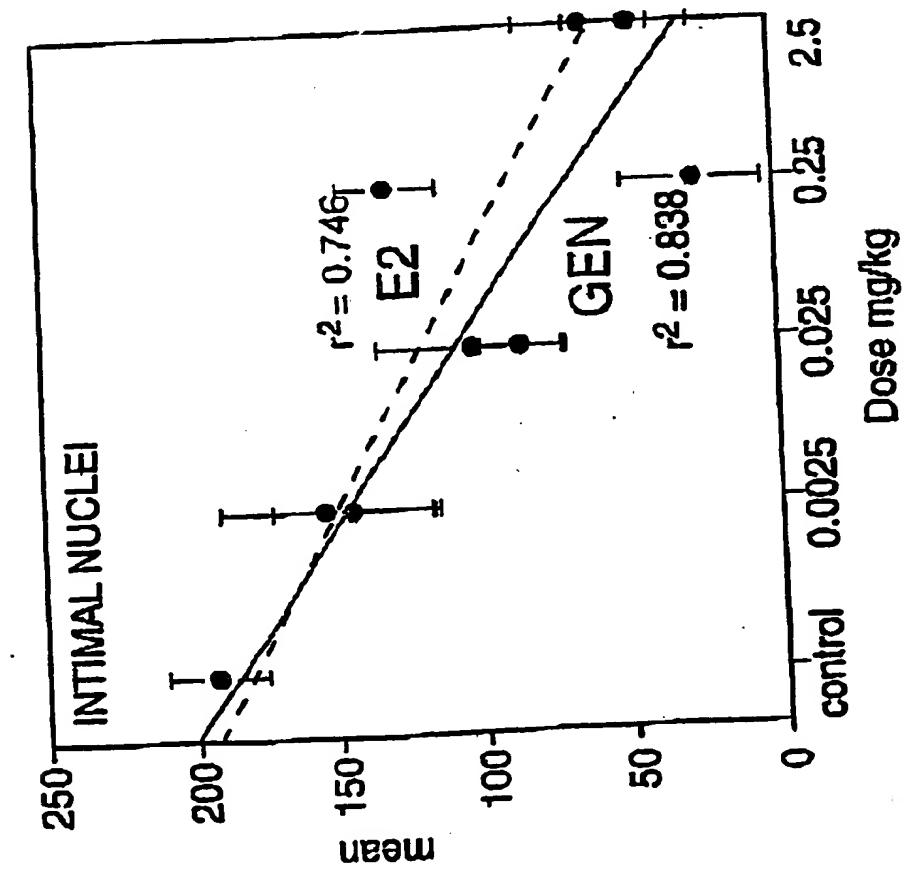


FIG. 2

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FIGURE 3  
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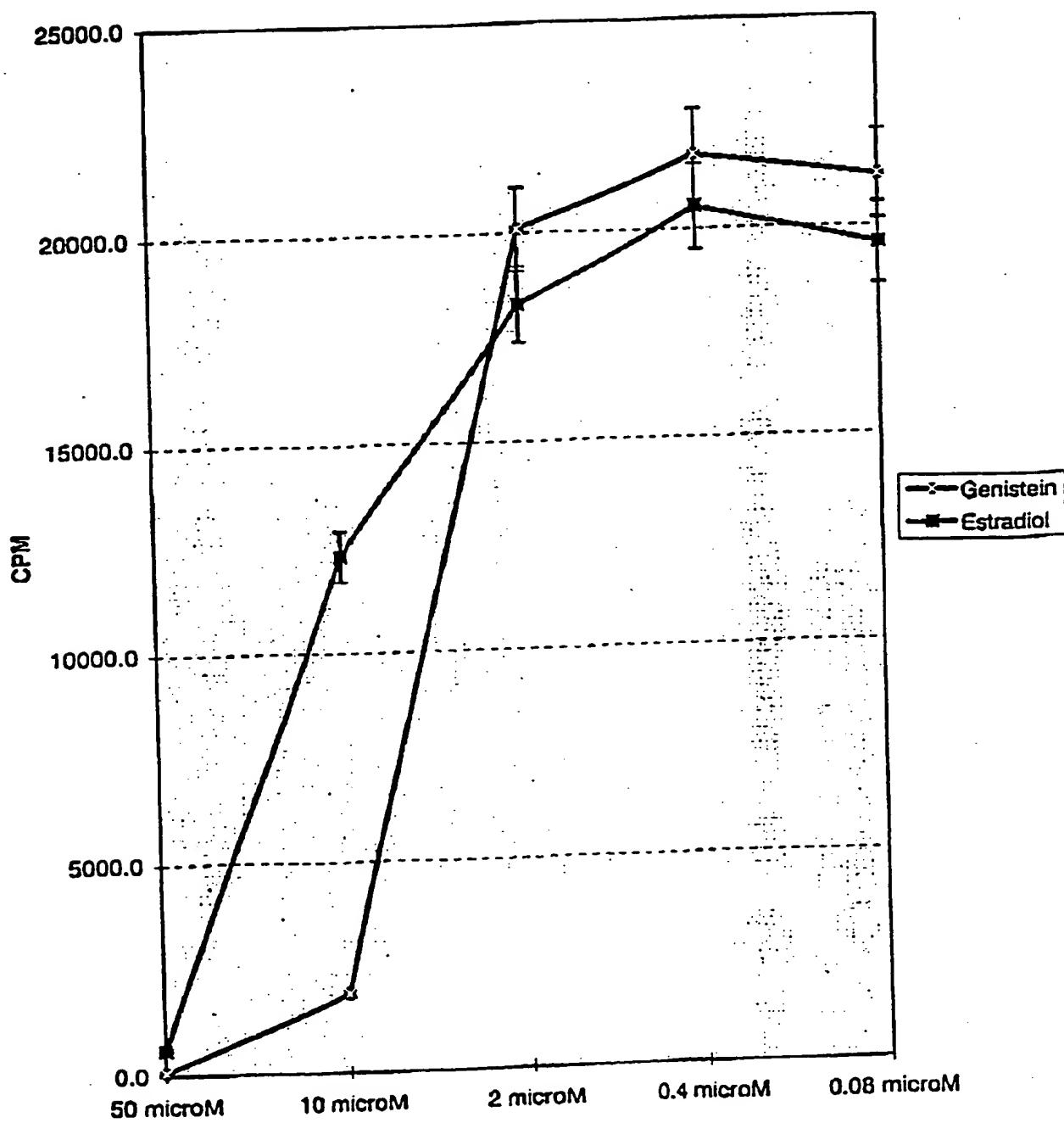
Binding affinity  $K_i$  (nM) of  $17\alpha$ -estradiol and genistein to  $ER\alpha$  and  $ER\beta$  is,  
respectively, 0.13 and 0.12 for E2 and 2.6 and 0.3 for GEN.

FIG. 3

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FIG. 4

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FIG. 5

Antibody Type	Species	Antigen Source	Dilution	Test System	Reactivity	Notes
Rabbit	Rat, human	IHC 10µg/ml IP WB 1-2µg/ml	Synthetic peptide aa. 54-71 of rat, mouse. Aa. 46-63 of human.	200µg of protein A-purified IgG in 200µl of 0.1 M Tris-glycine.	06-629 Upstate biotechnology	Enmark, E. L., et al., Proc. Natl. Acad. Sci. USA 83: 5925-5930, 1986. Byers, M., et al., Mol. Endo. 11: 172-182, 1997.
MoAb	Human, bovine, rat, mouse	IHC 1:50-1:100 IP WB 0.5-2µg/ml	Purified, SDS-denatured calf uterus ER-receptor	200µg of protein A-purified mouse IgG in 400µl of 10mM PBS	05-394 Upstate biotechnology	Evans, R. M., Science 240: 889-895, 1988. Green, S., et al., Nature 324: 615-617, 1986.
MoAb	human mouse	IHC 1:40-1:60 FlowC. WB 1:50-1:100	Procarotic recombinant protein construct bonding to the full-length alpha form of the ER-receptor molecule.	Lyophilised tissue culture supernatant/ 1ml Aqua	NCL-ER-6F Novocastr	Bevitt, D. J., Pigget, N., et al., New monoclonal antibodies to oestrogen and progesterone receptors effective for paraffin section IHC. Journal of Pathology 183: 228-232, 1997.
MoAb	human	IHC 1:50-1:100				Clark, G. M., McGuire, W. L., The clinical usefulness of oestrogen receptor and other markers of hormone dependence. Proceedings of the Royal Society of Edinburgh 95B: 145-150, 1989.
MoAb	human	IHC 1:50-1:100				Henry, J. A., Angus, B., Horne, C. H. W., Oestrogen receptor and oestrogen regulated proteins in human breast cancer: a review. KEIO Journal of Medicine, 38: 241-261, 1989.
MoAb	human	IHC 1:50-1:75 WB				Shintaku, P., Said, J. W., Detection of oestrogen receptors with monoclonal antibodies in routinely processed formalin-fixed paraffin sections of breast carcinoma. American Journal of Clinical Pathology, 87: 161-167, 1987.
MoAb	human	IHC 1:50-1:75 WB	N-term. domain of the receptor (A/B region)	Recombinant human ER-receptor protein (lissencephaly super-natant /1ml RPMI 1640)	M 7047 DAKO	Kumar, V., et al., Functional domains of the human oestrogen receptor. Cell 51: 941-951, 1987.
MoAb	rat, mouse	IHC 5-10µg/ml WB 1µg/ml aa. 467-485	rat peptide COOH-terminal	50µg/50µl PBS Control peptide	PA1-310 Control peptide PEP-007	Sanning, P., Shousha, S., Demonstration of oestrogen receptors in paraffin wax sections of breast carcinoma using the monoclonal antibody 1D5 and microwave oven processing. J. Clin. Pathol. 47: 80-2, 1994.
MoAb	rat, mouse	IHC 5-10µg/ml WB 1-2µg/ml aa. 55-70	rat peptide NH2-terminal	50µg/50µl PBS Control peptide	PA1-311 Control peptide PEP-011	Li X., Schwartz, P. E., Rissman, E. F., Distribution of oestrogen receptor-beta-like immunoreactivity in rat forebrain. Neuroendocrinology 66: 63-67, 1997.
MoAb	Human, Rat	IHC 5µg/ml IP 5µg/ml WB 5.5µg/ml	Human peptide DNA-binding dom. aa. 247-261	50 µg/100 µl PBS (pre-diluted Ascites) Control peptide	MA1-310 ABR PEP-013	Alves, S. E., et al., Differential colocalization of oestrogen receptor beta with oxytocin and vasopressin in the paraventricular and supraoptic nuclei of the female rat brain: An immunocytochemical study. Proc. Natl. Acad. Sci. USA 95(6): 3281-3286, 1998.
MoAb	Human, Rat	IHC 5µg/ml IP 5µg/ml WB 5.5µg/ml				Traish, A., et al., Development and characterization of monoclonal antibodies to a specific domain of human oestrogen receptor. Steroids 55: 195-208, 1990.